

RELEASED

Release 3.1A John F. Collins, Biocomputing Research Unit.
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MSearch_n n.a. - n.a. database search, using Smith-Waterman algorithm

Run on: Fri Dec 11 06:07:02 1998; MasPar time 1448.41 Seconds

Tabular output not generated. 1352.597 Million cell updates/sec

Title: >US-08-765-588-3
Description: (1-1094) from US08765588.seq
Perfect Score: 1094
N.A. Sequence: 1 ccacgagccctctgtccgcg.....gaagagaaaaaanaa 1094
Comp: ggtactcggagacgagcgcg.....cttccttttttttttt

Scoring table: TABLE default

Gap 6

Kmatch STD : Dbase 0; Query 0

Searched: 2275026 seqs, 895388244 bases x 2

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database:

embl-est55
1:em-est1 2:em-gss1 3:em-gss2 4:em-gss3

Database:

genbank-est107
5:gb-est1 6:gb-est10 7:gb-est11 8:gb-est12 9:gb-est13
10:gb-est14 11:gb-est15 12:gb-est16 13:gb-est17
14:gb-est18 15:gb-est19 16:gb-est17 17:gb-est20
18:gb-est21 19:gb-est13 20:gb-est14 21:gb-est5 22:gb-est6
23:gb-est1 24:gb-est8 25:gb-est9 26:gb-gss1 27:gb-gss2
28:gb-gss3 29:gb-gss4

Statistics: Mean 11.484; Variance 3.130; scale 3.669

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description	Pred. No.
1	538	49.2	565	10	AA633535	0.00e+00
2	510	46.6	566	18	AA141331	0.00e+00
3	496	45.3	502	13	AA843665	0.00e+00
4	489	44.7	493	6	AA34389	0.00e+00
5	483	44.1	553	11	AA082818	0.00e+00
6	467	42.7	469	13	AA843550	0.00e+00
7	462	42.2	490	12	AA741539	0.00e+00
8	431	39.4	468	21	AA040199	0.00e+00
9	416	38.0	523	21	AA040843	0.00e+00
10	415	37.9	445	8	AA392448	0.00e+00
11	410	37.5	412	13	AA746258	0.00e+00
12	405	37.0	440	17	AA109165	0.00e+00
13	400	36.6	416	9	AA535588	0.00e+00

C	14	398	36	4	AA948212	0.00e+00
C	15	387	35	4	AA310070	0.00e+00
C	16	375	34	3	AA983317	0.00e+00
C	17	364	33	3	AA56770	0.00e+00
C	18	362	33	1	AA469054	0.00e+00
C	19	362	33	1	AA742966	0.00e+00
C	20	346	31	6	AA352350	0.00e+00
C	21	342	31	3	AA182397	0.00e+00
C	22	316	28	9	AA39505	0.00e+00
C	23	310	28	3	AA630120	0.00e+00
C	24	294	26	9	AA304346	0.00e+00
C	25	293	26	8	AA344485	0.00e+00
C	26	289	26	4	AA400486	0.00e+00
C	27	287	26	2	R90829	0.00e+00
C	28	283	25	9	AA174183	0.00e+00
C	29	278	25	4	H2121807A	0.00e+00
C	30	273	25	0	H2121807A	0.00e+00
C	31	261	23	9	R88630	0.00e+00
C	32	245	22	4	H2121807B	0.00e+00
C	33	239	21	8	N87395	0.00e+00
C	34	232	21	2	AA155033	0.00e+00
C	35	226	20	7	AA932606	0.00e+00
C	36	213	19	5	AA117413	0.00e+00
C	37	199	18	2	AA400352	0.00e+00
C	38	181	16	5	R90830	0.00e+00
C	39	161	14	3	AA073660	0.00e+00
C	40	135	12	3	AA117672	0.00e+00
C	41	132	12	1	R29477	0.00e+00
C	42	124	11	3	T08411	0.00e+00
C	43	118	10	8	AA419103	0.00e+00
C	44	80	7	3	AA917955	0.00e+00
C	45	77	7	0	AA073557	0.00e+00

ALIGNMENTS

RESULT	1	AA633535	565 bp	mRNA	EST	28-OCT-1997
LOCUS		np66d06.s1	NCI CGAP Br2	Homo sapiens	CDNA IMAGE:1131275	
DEFINITION		similar to TR:G1216398 G1216398 VEGF RELATED FACTOR ISOFORM VRF167				
PRIMER		PRECURSORS. // mRNA sequence.				
ACCESSION		AA633535				
KEYWORDS		EST.				
SOURCE		human.				
ORGANISM		Homo sapiens				
REFERENCE		Eukaryotae; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria;				
AUTHORS		Primates; Catarrhini; Homnidae; Homo.				
TITLE		NCI CGAP http://www.ncbi.nlm.nih.gov/ncicgap.				
JOURNAL		National Cancer Institute, Cancer Genome Anatomy Project (CGAP),				
COMMENT		Tumor Gene Index				
		Unpublished (1997)				

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Tel: (301) 496-1550

Email: Robert.Strausberg@nih.gov

Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.

Emmert-Buck, M.D., Ph.D.

CDNA Library Preparation: M. Bento Soares, Ph.D.

DNA Sequencing by: Greg Lennon, Ph.D.

Clone distribution: NCI CGAP clone distribution information can be

found through the I.M.A.G.E. Consortium/ILMIL at:

www-bio.llnl.gov/bdip/image/image.html

Insert Length: 648 Std Error: 0.00

Seq primer: -40ml3 fwd. ET from Amersham

High quality sequence stop: 411.

Location/Qualifiers

1. 565

/organism="Homo sapiens"

/note="Vector: pT7T3D-Pac (Pharmacia) with a modified

 M O S E R
 (TM)

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Mperch_n n.a. - n.a. database search, using Smith-Waterman algorithm

Run on: Fri Dec 11 06:38:25 1998; Maspar time 163.86 Seconds
 908.342 Million cell updates/sec

Tabular output not generated.

Title: >US-08-765-588-3
 Description: (1-1094) From US08765588.seq
 Perfect Score: 1094
 N.A. Sequence: 1 ccattgagccctctctccgc.....gaagaaaaaaaaaaa 1094
 Comp: ggtactcgagagagagagagcg.....cttccttttttttttt

Scoring table: TABLE default
 Gap 6

Nmatch STD : Dbase 0; Query 0

Searched: 188442 segs, 68026449 bases x 2

Post-processing: Minimum Match 0%
 Listing first 45 summaries

Database:

n-geneseg32
 1:part1 2:part2 3:part3 4:part4 5:part5 6:part6 7:part7
 8:part8 9:part9 10:part10 11:part11 12:part12 13:part13
 14:part14 15:part15 16:part16 17:part17 18:part18
 19:part19 20:part20 21:part21 22:part22 23:part23
 24:part24 25:part25 26:part26 27:part27 28:part28
 29:part29 30:part30 31:part31 32:part32 33:part33
 34:part34 35:part35 36:part36 37:part37 38:part38
 39:part39 40:part40

Statistics: Mean 9.233; Variance 6.558; scale 1.408

Pred. No. is the number of results predicted by chance to have a
 score greater than or equal to the score of the result being printed,
 and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description	Pred. No.
1	1094	100.0	1094	23	T33610	Vascular endothelial
2	622	56.9	624	28	T37915	VEGF-B186 coding sequ
3	608	55.6	610	23	T33613	Vascular endothelial
4	604	55.2	666	31	T44071	Human vascular endoch
5	583	53.3	993	23	T33611	Vascular endothelial
6	537	49.1	1242	23	T13809	Murine VRF186 cDNA.
7	496	45.3	624	28	T37914	VEGF-B186 coding sequ
8	448	41.0	858	23	T33612	Vascular endothelial
9	412	37.7	570	28	T37913	Fibrosarcoma VEGF-B16
10	320	29.3	565	28	T37910	Adult heart VEGF-B17
11	316	28.9	1141	23	T13810	Murine VRF167 cDNA.
12	302	27.6	405	28	T37912	VEGF-B112 coding sequ
13	241	22.0	886	28	T37909	Partial VEGF-B coding

14	222	20.3	591	28	T37911	Adult heart VEGF-B174
15	48	4.4	466	22	T17740	VEGF121 Cys+2 coding
16	48	4.4	467	22	T17739	VEGF121 Cys+4 coding
17	48	4.4	473	17	Q99080	CNA encoding human v
18	48	4.4	498	12	Q10797	Human vascular endoch
19	48	4.4	539	22	T17748	VEGF165 Cys+2 coding
20	48	4.4	559	22	T17747	VEGF165 Cys+4 coding
21	48	4.4	605	17	Q99081	cDNA encoding human v
22	48	4.4	774	33	T85644	Antisense inhibitory
23	48	4.4	774	39	V15102	Human vascular endoch
24	48	4.4	989	2	Q07006	Clone lambda.veg1.21
25	48	4.4	1154	22	T35743	SAP-AlaMet-VEGF121 co
26	48	4.4	1167	22	T17784	SAP(Gly4Ser)VEGF121 c
27	48	4.4	1220	22	T35744	SAP(Gly4Ser)4VEGF121
28	48	4.4	1299	22	T17785	SAP(Gly4Ser)VEGF165 c
29	48	4.4	1395	22	T35740	VEGF165-AlaMet-SAP co
30	48	4.4	1538	22	T35745	SAP-AlaMet-VEGF121(G1
31	48	4.4	1557	22	T17789	SAP(Gly4Ser)VEGF121(G
32	48	4.4	1595	22	T35751	SAP(Gly4Ser)2VEGF121(
33	48	4.4	1649	22	T95831	DNA for VEGF/CPG2 fus
34	48	4.4	1664	37	T95835	DNA for VEGF/CPG2 fus
35	48	4.4	1787	37	T95830	DNA for VEGF/CPG2 fus
36	48	4.4	1787	22	T35749	SAP-AlaMet-VEGF165-G1
37	48	4.4	1790	37	T95832	DNA for VEGF/CPG2 fus
38	48	4.4	1790	37	T95833	DNA for VEGF/CPG2 fus
39	48	4.4	1802	22	T35748	SAP-AlaMet-VEGF165(G1
40	48	4.4	1808	22	T35752	SAP-GlySer-VEGF165(G1
41	48	4.4	1809	22	T17790	SAP(Gly4Ser)VEGF165(G
42	48	4.4	1823	22	T35750	SAP-AlaMet-VEGF165(G1
43	48	4.4	1832	37	T95834	DNA for VEGF/CPG2 fus
44	48	4.4	1859	22	T35753	SAP(Gly4Ser)2VEGF165(
45	48	4.4	1873	39	V15103	Human vascular endoch

ALIGNMENTS

RESULT 1
 ID T33610 standard; cDNA; 1094 BP.
 AC T33610;
 DT 30-NOV-1996 (first entry)
 DE Vascular endothelial growth factor-like protein SOM175 cDNA.
 KW Vascular endothelial growth factor; VEGF; VEGF165; SOM175; neuron;
 OS Homo sapiens.
 FH Key Location/Qualifiers
 FT cds 3..626
 FT signal_peptide 3..65
 FT mat_peptide 66..623
 FT mat_peptide /*tag- c
 PN MO9627007-A1.
 PD 06-SEP-1996.
 PR 22-FEB-1996; AU00094.
 PR 02-MAR-1995; AU-001457.
 PR 20-NOV-1995; AU-006647.
 PR 22-DEC-1995; AU-007274.
 PA (AMRA-) AMRAD OPERATIONS PTY LTD.
 PI Grimsmond S, Hayward NK, Larsson C, Nordenskjold M;
 PI Weber G;
 PI WPI: 96-412774/41.
 DR P-PDB: W00725.
 DR New growth factor related to vascular endothelial growth factor -
 PT useful for inducing astroglial proliferation and promoting neuronal
 survival.
 PS Claim 3: Page 39-40; 113pp; English.
 CC SOM175 cDNA (T33610) codes for a human vascular endothelial growth
 CC factor (VEGF)-like polypeptide (W00725) capable of inducing
 CC astroglial proliferation and of promoting neural survival and/or
 CC proliferation. It was isolated by screening a human fetal brain
 CC library with the cosmid D115750. Nucleotide sequence homology to
 CC the human VEGF gene (see also T33609) is 69.7%. The SOM175 gene
 CC maps to human chromosome 11q13. Splice variants of SOM175 (see

WILEY
INTERDISCIPLINARY
SCIENCE REVIEW
(TM)

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MPsrch.un n.a. - n.a. database search, using Smith-Waterman algorithm

Run on: Fri Dec 11 06:42:18 1998; Maspar time 43.51 Seconds

1172.855 Million cell updates/sec

Tabular output not generated.

Title: >US-08-765-588-3
Description: (1-1094) from US08765588.seq
Perfect Score: 1094
N.A. Sequence: 1 ccataagacccctctcgcgc.....gaagaaaaaanaaaaaa 1094
Comp: ggtactctggagacagagcg.....cttccttttttttttttt

Scoring table: TABLE default
Gap 6

Nmatch STD : Dbase 0; Query 0

Searched: 88822 segs, 2332279 bases x 2

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database:

n-issued
1:5_COMB 2:PC79_COMB 3:backfile1

Statistics: Mean 8.813; Variance 5.776; scale 1.526

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Query Length	DB ID	Description	Pred. No.
1	412	37.7	570	1	US-08-469-1 Sequence 10, Applicati	7.79e-243
2	320	29.3	565	1	US-08-469-1 Sequence 4, Applicati	3.12e-183
3	302	27.6	405	1	US-08-469-1 Sequence 8, Applicati	1.29e-171
4	241	22.0	886	1	US-08-469-1 Sequence 1, Applicati	2.08e-132
5	222	20.3	591	1	US-08-469-1 Sequence 6, Applicati	5.56e-120
6	67	6.1	7218	1	US-08-233-1 Sequence 14, Applicati	2.15e-15
7	52	4.8	7218	1	US-08-233-1 Sequence 14, Applicati	3.61e-13
8	48	4.4	456	2	PCT-US95-1 Sequence 86, Applicati	3.61e-13
9	48	4.4	467	2	PCT-US95-1 Sequence 23, Applicati	3.61e-13
10	48	4.4	473	2	PCT-US95-1 Sequence 23, Applicati	3.61e-13
11	48	4.4	498	2	PCT-US95-1 Sequence 23, Applicati	3.61e-13
12	48	4.4	599	2	PCT-US95-1 Sequence 89, Applicati	3.61e-13
13	48	4.4	599	2	PCT-US95-1 Sequence 87, Applicati	3.61e-13
14	48	4.4	605	2	PCT-US95-1 Sequence 26, Applicati	3.61e-13
15	48	4.4	989	2	PCT-US95-1 Sequence 57, Applicati	3.61e-13
16	48	4.4	1167	2	PCT-US95-1 Sequence 31, Applicati	3.61e-13
17	48	4.4	1195	3	PCT-US95-1 Sequence 31, Applicati	3.61e-13
18	48	4.4	1212	2	PCT-US95-1 Sequence 32, Applicati	3.61e-13
19	48	4.4	1269	2	PCT-US95-1 Sequence 58, Applicati	3.61e-13
20	48	4.4	1299	2	PCT-US95-1 Sequence 58, Applicati	3.61e-13

21	48	4.4	1369	2	PCT-US95-1 Sequence 33, Applicati	3.61e-13
22	48	4.4	1537	2	PCT-US95-1 Sequence 78, Applicati	3.61e-13
23	48	4.4	1809	2	PCT-US95-1 Sequence 79, Applicati	3.61e-13
24	47	4.3	677	2	PCT-US95-1 Sequence 27, Applicati	1.28e-12
25	47	4.3	728	2	PCT-US95-1 Sequence 28, Applicati	1.28e-12
26	46	4.2	498	3	PCT-US95-1 Patent No. 5219739	4.53e-12
27	44	4.0	197	2	PCT-US95-1 Sequence 18, Applicati	5.56e-11
28	44	4.0	886	3	PCT-US95-1 Patent No. 5219739	6.67e-10
29	42	3.8	789	3	PCT-US95-1 Patent No. 5219739	6.67e-10
30	42	3.8	790	3	PCT-US95-1 Patent No. 5219739	6.67e-10
31	42	3.8	961	3	PCT-US95-1 Patent No. 5219739	6.67e-10
32	42	3.8	1543	3	PCT-US95-1 Patent No. 5219739	6.67e-10
33	38	3.5	215	1	US-08-238-1 Sequence 5, Applicati	8.79e-08
34	38	3.5	215	1	US-08-238-1 Sequence 5, Applicati	8.79e-08
35	38	3.5	215	1	US-08-238-1 Patent No. 5194596	8.79e-08
36	28	2.6	5775	2	PCT-US95-1 Sequence 29, Applicati	9.16e-03
37	27	2.5	242	1	US-08-273-1 Sequence 15, Applicati	2.72e-02
38	26	2.4	2504	1	US-08-484-1 Sequence 15, Applicati	7.93e-02
39	26	2.4	2504	1	US-08-484-1 Sequence 15, Applicati	7.93e-02
40	26	2.4	5011	1	US-08-141-1 Sequence 7, Applicati	2.28e-01
41	25	2.3	6513	2	PCT-US95-1 Sequence 7, Applicati	2.28e-01
42	25	2.3	6513	2	PCT-US95-1 Sequence 7, Applicati	2.28e-01
43	25	2.3	6513	1	US-08-724-1 Sequence 7, Applicati	2.28e-01
44	25	2.3	6513	1	US-08-724-1 Sequence 7, Applicati	2.28e-01
45	25	2.3	8438	1	US-07-945-1 Sequence 1, Applicati	2.28e-01

ALIGNMENTS

RESULT 1
ID US-08-469-427A-10 STANDARD; DNA; UNC; 570 BP.
AC xxxxxx
DE Sequence 10, Application US/08469427A
Sequence 10, Application US/08469427A
Patent No. 5607918
GENERAL INFORMATION:
APPLICANT: Eriksson, Ulf
APPLICANT: Olofsson, Birgitta
APPLICANT: Alitalo, Kari
TITLE OF INVENTION: VASCULAR ENDOTHELIAL GROWTH FACTOR-B AND
TITLE OF INVENTION: DNA CODING THEREFOR
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: Evenson, McKewen, Edwards & Lenahan
STREET: 1200 G Street, N.W., Suite 700
CITY: Washington
STATE: DC
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/469,427A
FILING DATE: 06-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/397,651
FILING DATE: 01-MAR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Evans, Joseph D
REGISTRATION NUMBER: 26,269
REFERENCE/DOCKET NUMBER: 419799cp2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 628-8800
TELEFAX: (202) 628-8844
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 570 base pairs
TYPE: nucleic acid

Saoud, Christine

To: STIC-Biotech/ChemLib

Subject: 08/765588

Sequence search –

Please return results via SCORE.

SEQ ID NO:4, 8, 10. – protein search. Patent database – issued and pending.

SEQ ID NO:16 and 3 – nucleic acids. Patent database – issued and pending.

Thank you,
Christine Saoud
AU 1647
571-272-0891
REM 04E81

STIC-Biotech/ChemLib

12- ~~8~~ 927

From: Elliott, George
Sent: Wednesday, December 30, 1998 3:18 PM
To: STIC-Biotech/ChemLib
Cc: Saoud, Christine
Subject: FW: RUSH search

Importance: High

Please rush.

Thanks,

George

-----Original Message-----

From: Saoud, Christine
Sent: Wednesday, December 30, 1998 2:18 PM
To: Elliott, George
Subject: RUSH search
Importance: High

u.S.S.N. 08/765,588

Please search SEQ ID NO:16 in the patent and commercial databases.
This is a rush search because it is a due amended.

thank you,
christine Saoud
CM1-10E03
305-7519